



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 and 453/2010 (REACH)

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark:	LEXAN™
Product Code:	LGK3020-739-J1KB-JMOK
Product Description:	Polycarbonate [CASRN 25971-63-5], flame retardant, glass fiber filled
Product Type:	Commercial Product
Recommended use:	May be used to produce molded or extruded articles or as a component of other industrial products.
Company:	SABIC Innovative Plastics B.V. Plasticslaan 1 P.O. Box 117 4600 AC Bergen op Zoom The Netherlands
Manufacturer:	SABIC Japan LLC. 2-2,kinugaoka, Moka-shi, Tochigi-ken, Japan 321-4392
Emergency Telephone Number:	Bergen op Zoom +31(0)164-292911 (24/24)
Emergency Transportation/CHEMTREC (24 HOUR):	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
E-mail:	webinquiries@sabic-ip.com
Website Address:	www.sabic-ip.com



2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Pellets with slight or no odor
- Spilled material may create slipping hazard
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

Skin Contact:	Not a hazard with pellets during normal industrial use. Contact causes skin irritation.
Eye Contact:	Resin particles, like other inert materials, are mechanically irritating to eyes.
Inhalation:	Pellet inhalation unlikely due to physical form. Irritating to respiratory system; avoid inhalation of dusts.
Ingestion:	Pellet ingestion unlikely due to physical form.
Other Information:	Cool skin rapidly with cold water after contact with molten material. Heating can release hazardous gases. Hazardous fumes can also occur in post-processing operations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Not a hazardous substance or preparation according to EC-directives 1999/45/EC and 1272/2008/EC unless indicated.

HAZARDOUS COMPONENTS:

Chemical Name	CAS Number	ELINCS / EINECS-No.:	Weight %	Classification
Fiberglass, EU/GHS classified	65997-17-3	266-046-0	10-30	Classification: Carc.Cat.3; R40
Carbon black	1333-86-4	2156099	0.1-1.0	-

Chemical Name	SABIC Recom'd. (8 Hr)*	MAC (15 min. TWA)	MAC (8hr TWA)
Carbon black	Not established	3.5 MGM3 10 MGM3 Inhalable dust. 5 MGM3 Respirable dust.	3.5 MG/M3 (TOT DUST)

Remarks: This product consists primarily of high molecular weight polymers which are not expected to be hazardous. The ingredients in this product are present within the polymer matrix and are not expected to be hazardous.



4. FIRST AID MEASURES

If Inhalation:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
On skin contact:	Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.
On contact with eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.
On ingestion:	No hazards which require special first aid measures.
Precautions:	Cool molten product on skin with plenty of water. Do not remove solidified product. Do not peel polymer from the skin.

5. FIRE-FIGHTING MEASURES

Autoignition Temperature:	630°C (1166°F) estimated
Explosive Limits	
upper:	Not determined
lower:	Not determined
Suitable Extinguishing Media:	Use dry chemical, CO ₂ , water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).
Unsuitable Extinguishing Media for Safety Reasons:	Do not use a solid water stream as it may scatter and spread fire.
Hazardous Decomposition Products:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbons fragments, hydrogen bromide.
Hazards from Combustion Products:	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, brominated hydrocarbons.
Special Protective Equipment for Firefighters:	In the event of fire, wear self-contained breathing apparatus (EU: NEN-EN137).
Specific Hazards:	Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.



6. ACCIDENTAL RELEASE MEASURES

Clean up:	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.
Personal Precautions:	See section 8.
Environmental Precautions:	Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed.
Storage:	Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	No components with information, unless noted below
Chemical Name	Fiberglass, EU/GHS classified
EU TWA	65997-17-3
Netherlands OEL - MAC	5 mg/m ³
	10 MGM3 Dust.
	2 MGM3 Respirable dust.
	2 FIBERS/CM3 Respirable fibers.
UK EH40 MEL (TWA)	WEL_TWA: 1 mg/m ³ as W; WEL_STEL: 3 mg/m ³ as W
Spain - Valores Limite Ambientales - VLE	1 FIBERS/CM3
	0.5 FIBERS/CM3
Switzerland SUVA Limit Values at the Workplace Data - Time Weighted Average (TWA):	Kol_C: k_1C ; Comments: No data
Norway Exposure Limit Values Data - Threshold Limit Value:	KONS: 5 mg/m ³ totalstøv
Ireland Exposure Limit Values Data - Time Weighted Average (TWA):	TWA 5 mg/m ³ , 1 fibres/cm3 of air
Italy - OEL	0.2 FIBERS/CM3 Fiber.
	1 FIBERS/CM3 Fiber.
	5 MGM3 Inhalable fraction.
Chemical Name	Carbon black
France INRS (VME)	1333-86-4
Netherlands OEL - MAC	3.5 MGM3
UK EH40 MEL (TWA)	3.5 mg/m ³
Spain - Valores Limite Ambientales - VLE	WEL_TWA: 3.5 mg/m ³ ; WEL_STEL: 7 mg/m ³
Denmark TWA Data - Threshold Limit Values (TLV):	VLA-ED: 3.5 mg/m ³
Sweden Threshold Limit Values Data - Portugal - TWAs	ANM: p_K ; GR: 3.5 mg/m ³
Norway Exposure Limit Values Data - Threshold Limit Value:	NGV: 3 MGM3 totaldamm
Ireland Exposure Limit Values Data - Time Weighted Average (TWA):	VLE-MP: 3.5 mg/m ³ ; NOT: A_4; FUND: Pulmão
Greece - OEL	KONS: 3.5 mg/m ³
Finland Exposure Limit Values Data - Time Weighted Average (TWA):	TWA 3.5 mg/m ³ ; STEL 7 mg/m ³
Italy - OEL	DT_1 3.5 mg/m ³ ; DT_2 7 mg/m ³
	HTP_8: 3.5 mg/m ³ ; HTP_15: 7 mg/m ³
	3.5 mg/m ³

*SABIC Recommended Exposure Limits have been established for certain chemicals.

Engineering Measures to Exposure:	In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
Hand Protection:	Protective gloves should be worn. (EU: NEN-EN 374).
Eye Protection:	Safety glasses with side-shields. (EU: NEN-EN 165-166).
Respiratory Protection:	In the case of hazardous fumes, wear self contained breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment. (EU: NEN-EN149).



Body Protection:

Long sleeved clothing (EU: NEN-EN 340-369-465)

Hygiene Measures:

When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Solid

Appearance:

Pellets

Color:

Same as color code

Odor:

None

Melting point/range:

Various

Autoignition Temperature:

630°C (1166°F) estimated

Vapor Pressure:

Negligible

Water Solubility:

Insoluble

Evaporation Rate:

Negligible

Specific gravity:

>1; (water = 1)

VOC content (%):

Negligible

Explosive Limits

upper:

Not determined

lower:

Not determined

10. STABILITY AND REACTIVITY

Stability:

Stable under ambient conditions. Hazardous polymerization does not occur.

Conditions to Avoid:

Avoid temperatures above 630°C. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous.

Hazardous Decomposition Products:

Traces of phenol, alkylphenols, diarylcarbonates, hydrocarbons, Traces of, phenols, hydrogen bromide, bromine, brominated hydrocarbons.

Incompatible Products:

Strong acids, strong oxidizing agents



11. TOXICOLOGICAL INFORMATION

LD50/oral/rat:	>5000 mg/kg
LD50/dermal/rabbit:	>2000 mg/kg
Subchronic Toxicity:	No information available
Primary Irritation:	Substance does not generally irritate and is only mildly irritating to the skin. Skin irritation.
IARC:	Not listed
OSHA:	Not regulated
NTP:	Not tested
Remarks:	The toxicological data has been taken from products of similar composition.
Special Studies:	<p>Carbon Black: The International Agency for Research on Cancer (IARC) has determined that carbon black is a class 2B known animal and possible human carcinogen by the route of inhalation. Rats exposed to high doses of carbon black by inhalation developed statistically significant increases in lung fibrosis and lung tumors.</p> <p>Carbon Black: The scientific discussions about the carcinogenic potential of inorganic low solubility particles (fine dust) including carbon black has not been concluded. Many inhalation toxicologists believe the lung fibrosis and tumors that developed in rats following exposure to carbon black result from massive accumulation of small dust particles that overwhelm the clearance mechanism and produce what is termed "lung overload," an effect considered to be rat specific and not relevant to humans. In addition, based on epidemiological studies, no causal link between carbon black exposure and cancer risk in humans has been demonstrated.</p> <p>Fibrous Glass: The International Agency for Research on Cancer (IARC) has determined special-purpose fibrous glass to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Chronic exposure of rats by inhalation to high levels of E-glass fiber resulted in significant increases in lung tumors and mesotheliomas.</p>

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	Do not flush into surface water or sanitary sewer system.
Ecotoxicity - Invertebrate Data:	Ecological damages are not known or expected under normal use.



13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
Contaminated Packaging:	Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal
EWC waste disposal no:	702 - waste from the manufacture, formulation, supply and use of plastics, synthetic rubber and man-made fibres.

14. TRANSPORT INFORMATION

Transport Classification:	Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.
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DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR



15. REGULATORY INFORMATION

This substance is classified and labelled according to Annex I of Directive 67/548/EEC, as amended.

International Inventories:

TSCA (USA):	Listed
DSL (Canada):	Listed
EINECS/ELINCS (Europe):	Listed
ENCS (Japan):	Listed
IECSC (China):	Listed
KECL (Korea):	Listed
PICCS (Philippines):	Listed
AICS (Australia):	Listed
NZIoC (New Zealand):	Listed
REACH Information:	For this product's REACH related information, please contact webinquiries@sabic-ip.com

Other Inventory Information:

A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

SVHC (REACH Regulation (EC) No 1907/2006 and 453/2010, as amended):

This product does not intentionally contain SVHC chemicals except as noted below. Incidental amounts of impurities, if present, would be below the threshold limit of 0.1% by weight.

California Proposition 65:

Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

Chemical Name	Weight %	California Proposition 65:
Fiberglass, EU/GHS classified 65997-17-3	10-30	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)
Carbon black 1333-86-4	0.1-1.0	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)

RoHS EU Directive 2011/65/EU:

The subject product is in compliance with EU RoHS Directive 2011/65/EU. All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.



16. OTHER INFORMATION

SABIC and brands marked with TM are trademarks of SABIC or its subsidiaries or affiliates.

SDS Scope:

Europe: Conforms to Regulation (EC) No 1907/2006 and 453/2010 (REACH)

This document is also applicable in other countries and regions.

Prepared by:

Product Stewardship & Toxicology

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End of Safety Data Sheet